

Title (en)  
Lenticular screen for the perception of autostereoscopic images

Title (de)  
Linsenrasterschirm für autostereoskopische Bildwahrnehmung

Title (fr)  
Ecran lenticulaire pour la perception d'images autostéréoscopiques

Publication  
**EP 0493863 B1 19980311 (DE)**

Application  
**EP 91250341 A 19911223**

Priority  
DE 4042313 A 19901230

Abstract (en)  
[origin: EP0493863A2] 2.1. Based on continually more stringent requirements for the image quality of autostereoscopic perspective representations and parallax panoramagrams, the aim is to avoid reflected undesired light on the lenticular screen and to improve the selectivity in the lateral edge zones of the lenticular screen and in the outer panorama fields. It is always to be possible in this case to carry out improvements using simple means and thus economically. 2.2. According to the invention, the intensity of the undesired reflected light is reduced by means of lateral spreading in such a way that it can scarcely be perceived any longer by the observer. The lateral spreading is performed by as irregular as possible a relief structure (R) in the micrometer range on the surface (3) of the lenticular screen (1). The improvement in the selectivity is achieved by a correction of the pitch widths P of the cylindrical lens (2). Moreover, it is then possible to vary the screen thickness T and then, in addition, the radius of curvature K of the cylindrical lens (2). 2.3. Lenticular screens for the perception of autostereoscopic images, in particular large-image projection screens.  
<IMAGE>

IPC 1-7  
**G03B 35/24**; **G03B 21/60**; **G03B 21/62**

IPC 8 full level  
**H04N 13/305** (2018.01); **G03B 21/60** (2006.01); **G03B 21/602** (2014.01); **G03B 21/606** (2014.01); **G03B 21/62** (2006.01); **G03B 35/24** (2006.01)

CPC (source: EP US)  
**G03B 21/602** (2013.01 - EP); **G03B 21/606** (2013.01 - EP); **H04N 13/305** (2018.04 - EP US); **H04N 13/307** (2018.04 - EP)

Citation (examination)  
US 4013465 A 19770322 - CLAPHAM PETER BRIAN, et al

Cited by  
EP1324114A3; CN112219163A; US7710645B2; US8746894B2

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